

ARMSTRONG

PIPE TOOLS

Catalog
No. 37C

ARMSTRONG
MANUFACTURING CO.
BRIDGEPORT, CONN. U.S.A.



ARMSTRONG

Reg. U. S. Pat. Off. & Leading Countries of the World

BRIDGEPORT

MODERN TOOLS

By America's Pioneer Pipe Tool Manufacturer

**ARMSTRONG ADJUSTABLE STOCKS AND DIES . . . SOLID STOCKS AND DIES
. . . RATCHET DIESTOCKS for Adjustable and Solid Dies . . . 3-WAY DIESTOCKS
. . . IMPROVED PIPE VISES . . . PIPE CUTTERS . . . PORTABLE VISE STANDS . . .
INTEGRAL *VISTANDS . . . PORTABLE VISE POSTS . . . TUBE CUTTERS . . . HANDY
THREADERS . . . COOLING CUTTING OIL and other modern equipment for Pipe,
Bolts, Rods and Tubing.**

* Reg. U. S. Pat. Off.

CATALOG No. 37C

ARMSTRONG
MANUFACTURING COMPANY
BRIDGEPORT
CONNECTICUT, U.S.A. EST. 1869

ARMSTRONG

THE WORLD WIDE NAME OF QUALITY

The name ARMSTRONG is registered in all the principal countries of the world.

To avoid imitation be sure that the name ARMSTRONG and BRIDGEPORT appear on every tool, vise stand, etc., before making the purchase. Years of constant research have kept these products in keeping with modern piping requirements. For quality sake, buy only the original and genuine. There is none "just as good."



FOR THREADING MODERN PIPE

Brass Pipe Dies should be kept separate from dies used for threading iron or steel pipe. Upon request and without extra cost, ARMSTRONG Adjustable Pipe Stock and Die Sets and ARMSTRONG Adjustable Ratchet Diestock Sets listed herein will be supplied for threading Brass, with Dies stamped "BRASS PIPE ONLY" for identification. They should never be used on steel or iron.

Modern ARMSTRONG Dies also can be supplied for the threading of COPPER, MONEL METAL, ALUMINUM, STAINLESS STEEL, RUBBER and FIBRE PIPE. When ordering dies for specific modern pipe, state the material to be threaded. Dies with grinds for specific modern pipe and High Speed Steel Dies are special.

ARMSTRONG "Kalized" Adjustable Dies are fully described on page 4.



BRIEF FACTS ABOUT THIS CATALOG

All products of a similar type and purpose are grouped together for quick reference.

Many of the products shown are new, or improvements developed for modern pipe. Every consideration has been given to assure the user that ARMSTRONG tools and equipment will operate easier and produce better results. Weight has been reduced and strength increased. Competent research is constantly in progress to make the ARMSTRONG products meet every modern condition. Such is the tradition and the aim of America's Pioneer Pipe Tool Manufacturer.



ALL TOOLS GUARANTEED BY
ARMSTRONG

MANUFACTURERS OF
"MODERN TOOLS FOR MODERN PIPING"

ARMSTRONG·BRIDGEPORT



Armstrong Adjustable Stocks and Dies With Ring Bushings

Each set consists of an ARMSTRONG Adjustable Stock with an assortment of ARMSTRONG "Kalarized" Adjustable Dies and Ring Bushings for each cutting size, together with Screws, Handles and Wrench packed in a substantial individual container.

Bushings are removable and close nipples of all sizes can be threaded by Nos. 1½, 2 and 3 Stocks.

Set No.	List Price	For Threading Pipe Sizes—Inches	Weight Lbs.
1½	\$5.00	Any one size	4
1½	6.20	1/2, 3/4	4½
1½	7.60	3/8, 1/2, 3/4	5
1½	9.00	1/4, 3/8, 1/2, 3/4	5½
1½	10.40	1/8, 1/4, 3/8, 1/2, 3/4	6
2	12.00	1/4, 3/8, 1/2, 3/4, 1	12½
2	14.00	1/8, 1/4, 3/8, 1/2, 3/4, 1	13½
2	10.50	3/8, 1/2, 3/4, 1	11½
2	8.75	1/2, 3/4, 1	10½
2	7.00	1/2, 3/4	9½
2	6.00	Any one size	8½
2½	14.00	1/2x3/4, 1x1¼	13
2½	19.00	1/4, 3/8, 1/2x3/4, 1x1¼	16¾
2½	16.50	1/2, 3/4, 1, 1¼, 1½	16
2½	16.50	3/8, 1/2, 3/4, 1, 1¼	14¾
2½	21.50	1/4, 3/8, 1/2, 3/4, 1, 1¼, 1½	19
3	18.00	1¼, 1½, 2	28½
3	21.00	1, 1¼, 1½, 2	32¼
3	24.00	3/4, 1, 1¼, 1½, 2	36½
3	27.00	1/2, 3/4, 1, 1¼, 1½, 2	40¼
6	50.00	2½x3	62

X between two sizes indicates the Dies are double ended.

Right-hand No. 2½ Dies, single end, 1/8", 1/4", 3/8", 1/2", 3/4", 1", 1¼", 1½" will be supplied, if specified, at regular list.

Left-hand Dies take twice the die list.

Right-hand NPT or BSP Dies can be supplied in all sizes shown and for No. 2—5/8", 7/8", No. 3—5/8", 7/8" and 1¼" in BSP only, at regular list.

Right-hand "Brass Pipe Only" Dies, either NPT or BSP can be supplied for Nos. 1, 1½, 2 and 3 Stocks at regular list.

All Nos. 2 and 3 ARMSTRONG Adjustable Dies for pipe, tubing, bolt, or rod threading can be used in Nos. 2 or 3 ARMSTRONG Adjustable Stock, Nos. 2BR, 3BR, or 3R ARMSTRONG Ratchet Diestock or No. 60 ARMSTRONG 3-Way Diestock respectively

Right-hand NPT Dies shipped unless otherwise specified.

These assortments with ring bushings will be shipped unless otherwise specified:

No. 1½—1/4 to 3/4" RH

No. 2—1/4 to 1" RH

No. 2½—1/2x3/4" and 1x1¼" RH

No. 3—1 to 2" RH

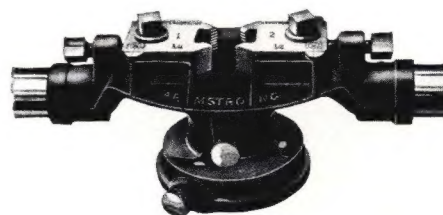
Complete listing and prices of Adjustable Dies found on page 4.

List price of parts found on page 6.

ARMSTRONG ADJUSTABLE STOCKS AND DIES FOR PIPE

The ARMSTRONG Adjustable Stock is so well known and widely accepted that it is only necessary to mention briefly the useful features which possibly are taken for granted. It is serviceable for a long period. It has standard marks to show exactly the correct position for each threading size. The easy threading ARMSTRONG "Kalarized" Adjustable Dies are quickly adjusted to variation in fittings. Oiling spaces are conveniently located to assure easy access to the spot where cooling cutting oil is most needed.

Armstrong Adjustable Stocks and Dies With Adjustable Guide



Each set consists of an ARMSTRONG Adjustable Stock with assortment of ARMSTRONG "Kalarized" Adjustable Dies for each cutting size, together with Adjustable Guide, Screws, Handles and Wrench packed in a substantial individual container.

The ARMSTRONG Adjustable Guide, eliminating the necessity of ring bushings for each size, is easily removable and close nipples may be cut.

Set No.	List Price	For Threading Pipe Sizes—Inches	Weight Lbs.
2	14.00	1/4, 3/8, 1/2, 3/4, 1	12½
2	16.00	1/8, 1/4, 3/8, 1/2, 3/4, 1	13
2	12.50	3/8, 1/2, 3/4, 1	11½
2	10.75	1/2, 3/4, 1	11
2	9.00	1/2, 3/4	10¼
2	8.00	Any one size	9½
2½	16.50	1/2x3/4, 1x1¼	12½
2½	21.50	1/4, 3/8, 1/2x3/4, 1x1¼	14¾
2½	19.00	1/2, 3/4, 1, 1¼, 1½	15¼
2½	19.00	3/8, 1/2, 3/4, 1, 1¼	15½
2½	24.00	1/4, 3/8, 1/2, 3/4, 1, 1¼, 1½	17½
3	21.00	1¼, 1½, 2	28½
3	24.00	1, 1¼, 1½, 2	31
3	27.90	3/4, 1, 1¼, 1½, 2	33½
3	30.00	1/2, 3/4, 1, 1¼, 1½, 2	36

Complete listing and prices of Adjustable Guide found on page 6.

For explanatory notes, see listing below the ARMSTRONG Adjustable Stocks and Dies with Ring Bushings—Column 1 on this page.

All Stocks and Dies shown on this page are in accordance with Federal Specifications.

ARMSTRONG-BRIDGEPORT

MANUFACTURING COMPANY CONNECTICUT, U.S.A. EST. 1869

ARMSTRONG "KALORIZED" ADJUSTABLE DIES FOR PIPE

Threading Sizes Inches	List Price Per Pair						
	No. 1	No. 1½	No. 2	No. 2½	No. 3	No. 6	No. 7
1/8	\$1.60	\$1.60	\$2.00	\$2.50	.....	.....	.....
1/4	1.60	1.60	2.00	2.50	.....	.....	.....
3/8	1.60	1.60	2.00	2.50	.....	.....	.....
1/2	1.60	1.60	2.00	2.50	\$3.50	.....	.....
1½x¾DE	.....	.....	.....	3.50	.....	.....	.....
5/8*	.....	.....	2.00	.....	3.50	.....	.....
¾	.....	1.60	2.00	2.50	3.50	.....	.....
7/8*	.....	.....	2.00	.....	3.50	.....	.....
1	.....	.....	2.00	2.50	3.50	.....	.....
1x1¼DE	.....	.....	.....	3.50	.....	.....	.....
1¼	.....	.....	.....	2.50	3.50	.....	.....
1½	.....	.....	.....	2.50	3.50	.....	.....
1¾*	.....	.....	.....	.....	3.50	.....	.....
2	.....	.....	.....	.....	3.50	.....	.....
2¼x2¾DE*	.....	.....	.....	.....	.....	\$17.00	\$20.00
2½x3DE	.....	.....	.....	.....	.....	17.00	20.00
3½x4DE†	.....	.....	.....	.....	.....	17.00	20.00

* Only BSP Dies supplied.

† This size No. 6 Dies supplied only for use in ARMSTRONG No. 00 Threading Machine.

Right-hand Dies supplied for either NPT or BSP, except as noted, at regular list.

Right-hand NPT Dies will be shipped unless otherwise specified.

Right-hand "Brass Pipe Only" Dies either NPT or BSP can be supplied for Nos. 1, 1½, 2 or 3 Adjustable Stocks, Nos. 2R, 2BR or 3R Diestocks or No. 60—3-Way Diestock respectively at regular list.

Special grind Dies for threading copper, aluminum, monel metal, stainless steel, hard rubber or fibre pipe supplied at slight additional cost, prices on application.

All Nos. 2 and 3 ARMSTRONG Adjustable Dies for pipe, tubing, bolt, or rod threading can be used in Nos. 2 or 3 ARMSTRONG Adjustable Stock, Nos. 2BR, 3BR, or 3R ARMSTRONG Ratchet Diestock or No. 60 ARMSTRONG 3-Way Diestock respectively.

Left-hand Dies take twice the die list.

Straight thread Dies, right-hand or left-hand, are special.

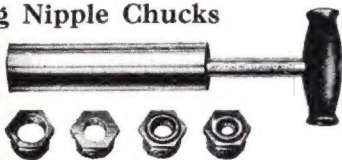
Complete listing and prices for ARMSTRONG Adjustable Dies for Tubing, on page 6; for Bolts and Rods, on page 5.

Bushings:—No. 1 \$.30; No. 1½ \$.30; No. 2 \$.40; No. 2½ \$.60; No. 3 \$.75; No. 6 \$2.00; (3 inch bushing not necessary); No. 7 \$3.00 (4 inch bushing not necessary).

Armstrong Nipple Chucks

Produces excellent nipples. A fluted cone securely holds pipe-end during threading operations.

Nipple is instantly removed after thread is cut.



Set No.	List Price	Sizes to hold Nipples—Inches	Wght. Lbs.	Bushings Each	Plunger	Screw and Handle
2	\$10.00	¼, ⅜, ½, ¾, 1	4	\$0.75	\$3.50	\$1.50
3	14.00	1, 1¼, 1½, 2	11	1.00	7.50	3.00
3	16.00	½, ¾, 1, 1¼, 1½, 2	13	1.00	7.50	3.00

Right-hand, No. 2 Nipple Chuck Bushing ¼" \$.75.

Right-hand NPT Bushings shipped unless otherwise specified.

Left-hand Bushings take twice the bushing list.

ARMSTRONG "Kalorized" Dies are stronger and tougher yet they slide smoothly and evenly around the pipe. "Kalorized" Dies last much longer and require less sharpening.



Quick Start Leading Threads

The ARMSTRONG "Double Taper" Lead with Full Size Leading Threads in the Throat pull the dies easily onto the pipe and quickly start a clean, true thread even over the meanest burr.

ARMSTRONG Adjustable Dies are interchangeable. Each pair is marked 1 and 2. Any 1 and 2 die of like thread and size from any pair will track.

Dies for Brass Pipe

Pipe Dies that are intended for Brass Pipe should never be used on iron or steel and should be kept carefully separated. To assist as much as possible, we plainly identify the dies "For Brass Pipe Only." All users of such pipe should have separate equipment for proper threading. These dies should be kept very sharp and clean and used only with ARMSTRONG Adjustable Stocks, 3-Way and Ratchet Diestocks.

ARMSTRONG "Brass Pipe Only" Dies are designed to cut true, light threads—from first to last—and are guaranteed not to roll up the pipe. No dope or wicking is necessary.

To assist in the proper threading of Brass Pipe, we have prepared a special folder giving suggestions, proper tools, etc., based on years of experience by ARMSTRONG engineers in handling Brass Pipe. It will be mailed promptly upon request.

Dies for Other Modern Grinds

Special Dies can be supplied for threading Copper, Aluminum, Monel Metal, Stainless Steel, Hard Rubber or Fibre Pipe in IPS sizes. These Dies are specially ground for each character of the pipe. Also special steels are used for these dies wherever the nature of the metal requires it. All special grind dies are clearly marked for instant identification.

Armstrong Cooling Cutting Oil

"It Cools As It Cuts"

Flows Freely in Zero Weather

Most important development in threading oil. Took three years to perfect. Absorbs heat, makes the dies cut easily and last longer.

Does not gum the pipe. Assures perfect results. Write for special handbook.

Pint Can . . . \$0.24

Quart Can . . . \$0.36

1 Gal. Can, with easy pouring spout . . . 1.50

5 Gal. Can, with easy pouring spout, per gal. 1.25

30 Gal. Drum, per gal. 1.10

50 Gal. Drum, per gal. 1.00



ARMSTRONG-BRIDGEPORT

MANUFACTURING COMPANY CONNECTICUT, U.S.A. EST. 1869



Armstrong Adjustable Stocks and Dies

Each set consists of an ARMSTRONG Adjustable Stock with an assortment of ARMSTRONG "Kalized" Adjustable Dies and Ring Bushings for each cutting size, together with Screws, Handles, and Wrench, packed in a substantial individual container.

Set No.	List Price	For Threading Bolts and Rods Sizes—Inches	Wght. Lbs.
1 1/2	11.50	1/4, 3/8, 1/2, 5/8, 3/4	6 1/4
1 1/2	15.00	1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4	6 1/4
1 1/2	15.00	1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 1	7
1 1/2	19.00	1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4, 7/8, 1	7 1/2
2	12.80	5/8, 3/4, 7/8, 1	13
2	15.00	5/8, 3/4, 7/8, 1	14
2	20.00	1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 1	16
2	20.00	5/8, 3/4, 7/8, 1, 1 1/8, 1 1/4	16
2	24.50	1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4, 7/8, 1	18 1/2
2	27.25	1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4, 7/8, 1	19 1/4
2	30.00	1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4, 7/8, 1, 1 1/8, 1 1/4	20
3	33.00	1, 1 1/4, 1 1/2, 1 3/4, 2	37
3	38.00	5/8, 1, 1 1/8, 1 1/4, 1 1/2, 1 3/4, 2	41
3	38.00	1 1/8, 1 1/4, 1 1/2, 1 3/4, 2	41
3	43.00	1, 1 1/8, 1 1/4, 1 1/2, 1 3/4, 2	45
3	53.00	1/2, 5/8, 3/4, 7/8, 1, 1 1/8, 1 1/4, 1 1/2, 1 3/4, 2	54

Right-hand Dies supplied with National Coarse (NC); *National Fine (NF); Whitworth; or *British Standard Fine (BSF) Threads at regular list.

*For No. 2 Stock only.

Left-hand Dies take twice the die list.

All sets listed will be supplied with taper hand taps included as ordered at price for sets plus price for taps. See page 14 for ARMSTRONG Hand Taps.

All Nos. 2 and 3 ARMSTRONG Adjustable Dies for pipe, tubing, bolt, or rod threading can be used in Nos. 2 or 3 ARMSTRONG Adjustable Stock, Nos. 2BR, 3BR, or 3R ARMSTRONG Ratchet Diestock or No. 60 ARMSTRONG 3-Way Diestock respectively.

Right-hand National Coarse (NC) Thread Dies shipped unless otherwise specified.

These assortments will be shipped unless otherwise specified:

No. 1 1/2—1/4 to 3/4", 7 sizes, RH No. 2—1/4 to 1", 7 sizes, RH
No. 3—1/2 to 1 1/2", 9 sizes, RH

Complete listing and prices of Adjustable Dies found in column 2 on this page.

List price of parts found on page 6.

Power Drive Yoke for No. 3 Stocks



This Yoke is for use with power drives, generally used for threading large pipe. The square of the Yoke fits all standard power drives and is for power threading of pipe 2 inches and smaller with No. 3 ARMSTRONG Stock.

List Price \$4.50

ARMSTRONG

ADJUSTABLE STOCKS AND DIES FOR BOLTS AND RODS

Armstrong "Kalized" Adjustable Dies

ARMSTRONG Adjustable Bolt Dies are correctly made. The cutting edges are properly spaced. Every tooth performs its intended service. Threads are relieved to cut smoothly and freely. "Kalized" Dies are stronger, tougher and last much longer.

Threading Sizes Inches	Number of Threads to the Inch						List Price per Pair			
	Standard Pitches				Other Threads					
	Nat'l Coarse (NC)	Nat'l Fine (NF)	Whit- worth	BSF	Stay Bolt	Pump Rod V 1/2" Over Size	No. 1	No. 1 1/2	No. 2	No. 3
1/4	20	28	20	26	.....	.....	\$1.50	\$1.50	\$2.00	.....
5/16	18	24	18	22	.....	.....	1.50	1.50	2.00	.....
3/8	16	24	16	20	.....	14	1.50	1.50	2.00	.....
7/16	14	20	14	18	.....	12	1.50	1.50	2.00	.....
1/2	13	20*	12	16*	12	12*	1.75	1.75	2.00	\$5.00
5/8	12	18	12	16	.....	.....	1.75	1.75	2.00	.....
3/4	11	18*	11	14*	12†	.....	1.75	1.75	2.00	5.00
1 1/16	11*	16*	11*	14*	12†	.....	1.75	.....	2.00	5.00
1 1/8	10	16*	10	12*	12	.....	1.75	1.75	2.00	5.00
1 1/4	10§	.....	10§	12*	12	.....	.....	.....	2.00	5.00
1 1/2	9	14†	9	11†	12	.....	.....	1.75	2.00	5.00
1 3/8	9§	.....	9§	.....	12	.....	.....	.....	2.00	5.00
1 1/2	8	14†	8	10†	12	.....	.....	1.75	2.00	5.00
1 5/8	.....	.....	.....	.....	12	.....	.....	.....	2.25	5.00
1 3/4	7	12†	7	9†	12	.....	.....	.....	2.25	5.00
1 7/8	.....	.....	.....	.....	12	.....	.....	.....	2.25	5.00
2	.....	.....	.....	.....	12	.....	.....	.....	2.25	.....
1 3/8	6	.....	6	.....	.....	.....	.....	.....	.....	5.00
1 1/2	6	.....	6	.....	.....	.....	.....	.....	.....	5.00
1 3/8	5 1/2§	.....	6	.....	.....	.....	.....	.....	.....	5.00
1 3/4	5	.....	5	.....	.....	.....	.....	.....	.....	5.00
1 7/8	5§	.....	4 1/2	.....	.....	.....	.....	.....	.....	5.00
2	4 1/2	.....	4 1/2	.....	.....	.....	.....	.....	.....	5.00

*Made for Nos. 1 and 2 Stocks only.

†Made for No. 2 Stock only.

‡Made for Nos. 2 and 3 Stocks only.

§These sizes and pitches are National Form (NS) Threads.

|| Not made for No. 1 1/2 Stocks.

Right-hand National Coarse (NC) Thread Dies shipped unless otherwise specified.

Sizes, dimensions and threads not listed are special.

All Nos. 2 and 3 ARMSTRONG Adjustable Dies for pipe, tubing, bolt, or rod threading can be used in Nos. 2 or 3 ARMSTRONG Adjustable Stock, Nos. 2BR, 3BR, or 3R ARMSTRONG Ratchet Diestock or No. 60 ARMSTRONG 3-Way Diestock respectively.

Left-hand National Coarse (NC), Whitworth, National Fine (NF) and British Standard Fine (BSF) Thread Dies take twice the die list.

Left-hand Pump Rod and Stay Bolt Dies are special.



Bushings: No. 1 \$.30; No. 2 \$.40;
No. 1 1/2 \$.30; No. 3 \$.75.

ARMSTRONG-BRIDGEPORT

MANUFACTURING COMPANY CONNECTICUT, U.S.A. EST. 1869

ARMSTRONG ADJUSTABLE STOCKS AND DIES FOR TUBING

Armstrong Adjustable Stocks and Dies For OD Brass Tubing

Each set consists of an ARMSTRONG Adjustable Stock with an assortment of ARMSTRONG "Kalized" Adjustable Dies and Ring Bushings for each cutting size, together with Screws, Handles and Wrench packed in a substantial container.

Set No.	List Price	For Threading OD Tubing Sizes—Inches	Wght. Lbs.	Dies, Pair	Bush- ings
2	13.00	1 1/8, 1 1/4, 1 3/8, 1 1/2	11 1/2	2.50	.40
2	11.00	1 1/4, 1 3/8, 1 1/2	10 1/2	2.50	.40
2	9.00	Any two sizes	9 1/2	2.50	.40
2	6.50	Any one size	8 1/2	2.50	.40

Additional Sizes:—Right-hand No. 2 Dies, 1/2", 5/8", 3/4", 7/8", 1" List—\$2.50 per pair.

Nos. 1 and 1 1/2 Dies 3/4 20 RH List—\$2.00 per pair.

Plumbers' Tubing OD Threads, diameter in inches—1/2 28, 5/8 20, 3/4 20, 7/8 18, 1 18, 1 1/8 18, 1 1/4 18, 1 3/8 18, 1 1/2 18.

No. 2 assortment, 1 1/8 to 1 1/2" Right-hand, will be shipped unless otherwise specified.

Only National Form Thread Dies supplied.

Left-hand Dies are special.

List price of parts found below.



Repair Parts for Armstrong Adjustable Stocks

Stock No.	Stock with Screws, Wrench and Handles	Stock with Adjustable Guide	Collar Screw	Adjusting Screw
1			\$0.25	\$0.20
1 1/2	\$3.25		.25	.20
2	4.00	6.00	.30	.25
2 1/2	5.25	8.00	.35	.35
3	7.00	10.50	.50	.40
6	36.00		.70	.50
7			.80	.50

Stock No.	Handles Per Set	Bushing Screw	Wrench	Leader Screw
1	\$0.75 (2)	\$0.20	\$0.20	
1 1/2	1.00 (2)	.20	.20	
2	1.25 (2)	.30	.25	
2 1/2	1.25 (2)	.30	.25	
3	2.50 (2)	.50	.30	
6	7.00 (4)	.60*	.30	\$8.00
7	7.00 (4)	.60*	.30	9.00

* Nos. 6 and 7 are set screws for the leader screws.



Armstrong Adjustable Guide For Adjustable and Solid Stocks

Eliminates loose bushings. The adjustable jaws form a perfect center and assure the cutting of straight threads. Hardened jaws set in a malleable iron frame provide a long-lived, fool-proof tool.

To Fit Stock No.	Adj.	Solid	List Price	Weight Lbs.	Jaws Each	Bot- tom Plate	Body	Set Screw	Plate Screws
1		0	\$4.50	1	\$0.45	\$1.60	\$2.20	\$0.16	\$0.08
2		1	5.00	1 1/4	.50	1.80	2.80	.20	.08
2 1/2		1 1/2	6.00	2 1/2	.60	2.10	3.60	.24	.08
3			8.00	5	.80	2.80	5.00	.24	.12



Armstrong Adjustable Stocks and Dies For Thin Tubing 27 V threads only

These dies have 27 straight threads, made in V threads only. Each set consists of an ARMSTRONG Adjustable Stock with an assortment of ARMSTRONG "Kalized" Adjustable Dies and Ring Bushings for each cutting size, together with Screws, Handles and Wrench packed in a substantial container.

Set No.	List Price	For Threading Thin Tubing Sizes—Inches	Wght. Lbs.	Dies, Pair	Bush- ings
2	14.50	1 1/8, 1 1/4, 1 3/8, 1 1/2	11 1/2	2.25	.40
2	12.25	1 1/4, 1 3/8, 1 1/2	10 1/2	2.75	.40
2	12.25	1 3/8, 1 1/2	10 1/2	2.75	.40

Additional Sizes:—Right-hand No. 2 Dies, 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 3/4", 7/8" List—\$2.25 per pair.

No. 2 assortment, 1 to 1 1/2" Right-hand, will be shipped unless otherwise specified.

All Nos. 2 and 3 ARMSTRONG Adjustable Dies for pipe, tubing, bolt, or rod threading can be used in Nos. 2 or 3 ARMSTRONG Adjustable Stock, Nos. 2BR, 3BR, or 3R ARMSTRONG Ratchet Diestock or No. 60 ARMSTRONG 3-Way Diestock respectively.

Only National Form Thread Dies supplied.

British Standard Form Thread Dies are special.

Left-hand Dies are special.

List price of parts found in column 1 of this page.

Pipe Dies for Discontinued Armstrong Threading Machines

Repair parts for discontinued ARMSTRONG Threading Machines are obtainable. Prices on application.

ARMSTRONG "Kalized" Pipe Dies for these machines are listed below.

Pipe Inch	Threads		For No. 0B Machine	For No. 00 Machine	For No. 1 Machine	For No. 1 1/2 Machine	For No. 3 Machine
	Per Inch						
	NPT	BSP					
1/4	18	19	\$2.00				
3/8	18	19	2.00				
1/2	14	14	2.00	\$3.50			
3/4	14	14	2.00	3.50	2 Sizes		
1	11 1/2	11	2.00	3.50	Six		
1 1/4	11 1/2	11	3.50	3.50	Sizes		
1 1/2	11 1/2	11	3.50	3.50	Double		
2	11 1/2	11	3.50	3.50	Ended		
2 1/2	8	11		2 Sizes	Dies		
3	8	11		\$17.00	\$12.00	Ended	
3 1/2	8	11		2 Sizes		\$15.00	
4	8	11					
4 1/2	8	11					
5	8	11					
6	8	11					

Right-hand BSP Dies threading 5/8", 3/4", and 1 1/4" can be supplied for Nos. 0B and 00 Machines List \$3.50

Right-hand BSP Dies threading 2 1/4"x2 3/4" can be supplied for No. 00 Machine List \$17.00

Right-hand NPT or BSP Dies supplied at regular list.

Right-hand NPT Dies shipped unless otherwise specified.

Left-hand Dies take twice the die list.

Complete listings and prices for Nos. 2 and 3 ARMSTRONG Adjustable Bolt Dies, 1/2" and larger, for Nos. 0B and 00 Machines found on page 5.



Armstrong Solid Stocks and Dies With Ring Bushings

The ARMSTRONG Solid Stock has a quick and positive Die Lock. A twist of the finger securely locks the Solid Die in place. Another twist unlocks it for removal.

The ARMSTRONG Solid Stock is very strong, yet it has no needless weight. It is carefully balanced for easy handling. Requires little or no effort and produces gratifying results. The oiling spaces are properly located to assure easy access to the spots where the cooling cutting oil will do the most good.

The ARMSTRONG "Double Taper" Lead with Full Size Leading Threads in the Throat of these "Kalarized" Solid Dies pull them onto the pipe. They are almost self-starting.

Each set consists of an ARMSTRONG Solid Stock with an assortment of ARMSTRONG "Kalarized" Solid Dies and Ring Bushings for each cutting size, together with Screws, and Handles packed in a substantial individual container.

Set No.	List Price	For Threading Pipe Sizes—Inches	Weight Lbs.
0	\$8.00	1/8, 1/4, 3/8, 1/2	5 1/2
1	12.00	1/8, 1/4, 3/8, 1/2, 3/4, 1	12 1/4
1	10.50	1/4, 3/8, 1/2, 3/4, 1	11
1	9.00	3/8, 1/2, 3/4, 1	9 3/4
1	7.50	1/2, 3/4, 1	8 3/4
1 1/2	15.50	1/4, 3/8, 1/2, 3/4, 1, 1 1/4	21 3/4
1 1/2	11.50	1/2, 3/4, 1, 1 1/4	18
1 1/2	9.50	3/4, 1, 1 1/4	16 1/4
2	22.00	1/2, 3/4, 1, 1 1/4, 1 1/2, 2	31 3/4
2	17.00	1, 1 1/4, 1 1/2, 2	25 1/2
2	14.50	1 1/4, 1 1/2, 2	22 1/2

Right-hand NPT or BSP Dies supplied at regular list.

Left-hand Dies take twice the die list.

All Nos. 0, 1, 1 1/2 and 2 ARMSTRONG Solid Dies for pipe, tubing, bolt, rod or conduit threading can be used in any Nos. 0, 1, 1 1/2 or 2 ARMSTRONG Solid Stock, Nos. 51R or 52R ARMSTRONG Ratchet Diestock, No. 61 ARMSTRONG 3-Way Diestock, Nos. 100R or 101R ARMSTRONG Drophead Ratchet Diestock respectively.

Right-hand NPT Dies shipped unless otherwise specified.

These assortments with ring bushings will be shipped unless otherwise specified:

No. 1—1/4 to 1" RH No. 1 1/2—1/2 to 1 1/4" RH
No. 2—1 1/4 to 2" RH

Complete listing and prices of Solid Dies found in Column 2.

List price of parts found on page 8.

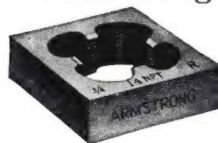


All Stocks and Dies shown on this page are in accordance with Federal Specifications.

ARMSTRONG

SOLID STOCKS AND DIES FOR PIPE

Armstrong "Kalarized" Solid Dies



The ARMSTRONG Solid Die is easy threading as well as easy starting. The double taper throat of each die is extra wide. In it are added the leading threads which start the die on to the pipe without effort.

Threading Size Inches	List Price Each			
	No. 0 (2x2x5/8)	No. 1 (2 1/2x2 1/2x3/4)	No. 1 1/2 (3x3x1/2)	No. 2 (4x4x1)
1/8	\$1.40	\$1.60	.....	.....
1/4	1.40	1.60	\$2.00	.....
3/8	1.40	1.60	2.00	.....
1/2	1.40	1.60	2.00	\$2.50
3/4	1.40	1.60	2.00	2.50
1	.....	1.60	2.00	2.50
1 1/4	.....	1.60	2.00	2.50
1 1/2	.....	.....	2.00	2.50
2	.....	.....	.....	2.50

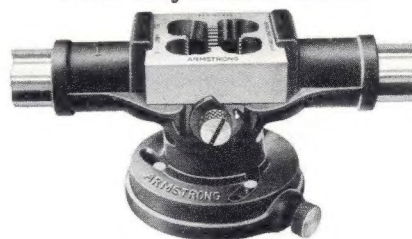
Right-hand NPT or BSP Dies supplied at regular list.

Right-hand NPT Dies shipped unless otherwise specified.

Left-hand Dies take twice the die list.

Bushings:—No. 0 \$.30; No. 1 \$.40; No. 1 1/2 \$.60; No. 2 \$.75.

Armstrong Solid Stocks and Dies With Adjustable Guide



Each set consists of an ARMSTRONG Solid Stock with an assortment of ARMSTRONG "Kalarized" Solid Dies for each cutting size together with Adjustable Guide, Screws, and Handles packed in a substantial individual container.

Set No.	List Price	For Threading Pipe Sizes—Inches	Weight Lbs.
0	\$9.80	1/8, 1/4, 3/8, 1/2	5 3/4
1	14.00	1/8, 1/4, 3/8, 1/2, 3/4, 1	12
1	12.50	1/4, 3/8, 1/2, 3/4, 1	11
1	11.00	3/8, 1/2, 3/4, 1	10
1	9.50	1/2, 3/4, 1	9 1/4
1 1/2	18.00	1/4, 3/8, 1/2, 3/4, 1, 1 1/4	19 1/2
1 1/2	14.00	1/2, 3/4, 1, 1 1/4	17 3/4
1 1/2	12.00	3/4, 1, 1 1/4	16 1/2

For explanatory notes, see listing below the Solid Stocks and Dies with Ring Bushings—Column 1 of this page.

ARMSTRONG BRIDGEPORT

MANUFACTURING COMPANY CONNECTICUT, U.S.A. EST. 1869

ARMSTRONG SOLID STOCKS AND DIES FOR BOLTS AND RODS

Each set consists of an ARMSTRONG Solid Stock with an assortment of ARMSTRONG "Kalized" Solid Dies and Ring Bushings for each cutting size, together with Screws and Handles packed in a substantial individual container.

Set No.	List Price	For Threading Bolts and Rods Sizes—Inches	Wgt. Lbs.
0	\$11.00	1/4, 5/16, 3/8, 7/16, 1/2	6 1/2
0	11.00	1/4, 3/8, 1/2, 5/8, 3/4	6 1/4
0	14.00	1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4	7 1/2
1	15.00	1/2, 5/8, 3/4, 7/8, 1	11 1/2
1	19.00	1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 1	14 1/2
1	19.00	1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4	15 1/4
1	19.00	1/2, 5/8, 3/4, 7/8, 1, 1 1/8, 1 1/4	13
1	23.00	1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4, 7/8, 1	17
1	27.00	1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4, 7/8, 1, 1 1/8, 1 1/4	18 1/2

Right-hand National Coarse (NC) or Whitworth Thread Dies at regular list.

Left-hand Dies take twice the die list.

All Nos. 0 and 1 ARMSTRONG Solid Dies for pipe, tubing, bolt, rod or conduit threading may be used in any Nos. 0 or 1 ARMSTRONG Solid Stock, No. 51R ARMSTRONG Ratchet Diestock, No. 61 ARMSTRONG 3-Way Diestock, Nos. 100R or 101R ARMSTRONG Drop-head Ratchet Diestock respectively.

Right-hand National Coarse (NC) Thread Dies shipped unless otherwise specified.

These assortments will be shipped, unless otherwise specified: No. 0, 1/4 to 3/4", 7 sizes RH No. 1, 1/4 to 1", 7 sizes RH Complete listing and prices of Solid Dies found in column 2 of this page.

List price of parts found in column 2 on this page.



Armstrong "Kalized" Solid Dies

Threading Sizes— Inches	For Bolts and Rods				Threading Sizes— Inches	For Conduit	
	Threads Per Inch		List Price Each			List Price Each	
	NC	Whit	No. 0	No. 1		No. 0	No. 1
1/4	20	20	\$1.50	\$2.00	1/2	\$1.60	\$2.00
5/16	18	18	1.50	2.00	3/4	1.60	2.00
3/8	16	16	1.50	2.00	1	1.60	2.00
7/16	14	14	1.50	2.00			
1/2	13	12	1.50	2.00	For O. D. Brass Tubing		
9/16	12	12	1.50	2.00	No. 0	3/4 20	List \$1.75
5/8	11	11	1.50	2.00	No. 1	3/4 20	2.00
11/16	11§	11	1.50	2.00	Supplied in American threads only.		
3/4	10	10	1.50	2.00	Left-hand Dies take twice the die list.		
13/16	10§	10	...	2.00			
7/8	9	9	...	2.00			
15/16	9§	9	...	2.00			
1	8	8	...	2.00			
1 1/8	7	7	...	2.00			
1 1/4	7	7	...	2.00			

§Right-hand National Form (NS) Thread.

Right-hand National Coarse (NC) Thread Dies shipped unless otherwise specified.

Left-hand Dies take twice the die list.

National Fine Thread Dies are special.

Bushings:—No. 0 \$.30; No. 1 \$.40

No. 70 Armstrong Handy Threader

The Practical Threader

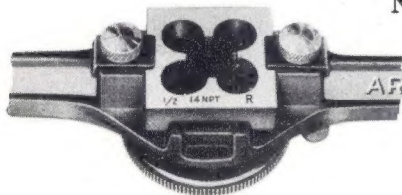
Just the thing for every handyman and home mechanic.

Threads easily 1/8 to 3/4" pipe and 1/4 to 3/4" bolts and rods.

Uses ARMSTRONG "Kalized" Solid Dies.

No. 0 Solid Pipe Dies listed and described on page 7.

No. 0 Solid Bolt Dies listed and described in column 2.



No. 70 With Adjustable Guide

List Price	For Threading Pipe Sizes—Inches	Wgt. Lbs.	List Price	For Threading Bolts and Rods Sizes—Inches	Wgt. Lbs.
\$5.40	1/2, 3/4	4 3/4	\$6.80	1/2, 5/8, 3/4	5 1/4
6.60	3/8, 1/2, 3/4	5	9.80	3/8, 1/2, 5/8, 3/4	6 1/4
7.80	1/4, 3/8, 1/2, 3/4	5 1/2	9.80	1/4, 3/8, 1/2, 5/8, 3/4	6 1/4
7.80	1/8, 1/4, 3/8, 1/2	5 1/2	9.80	1/4, 5/16, 3/8, 1/2, 5/8	6 1/2
9.00	1/8, 1/4, 3/8, 1/2, 3/4	6			

Threader only for Pipe or Bolt No.70 \$2.60. No.70B \$2.20

These assortments will be shipped unless otherwise specified:

Pipe—1/2 to 3/4" RH Bolt—1/2 to 3/4" RH

Standard Package—6 Sets to a Carton.

Left-hand Dies take twice the die list.

No. 70B With Ring Bushings

List Price	For Threading Pipe Sizes—Inches	Wgt. Lbs.	List Price	For Threading Bolts and Rods Sizes—Inches	Wgt. Lbs.
\$4.50	1/2, 3/4	4 3/4	\$6.20	1/2, 5/8, 3/4	5
5.90	3/8, 1/2, 3/4	4 3/4	8.80	3/8, 1/2, 5/8, 3/4	6 1/4
7.10	1/4, 3/8, 1/2, 3/4	5 1/2	8.80	1/4, 3/8, 1/2, 5/8, 3/4	6 1/4
7.10	1/8, 1/4, 3/8, 1/2	5 1/2	8.80	1/4, 5/16, 3/8, 1/2, 5/8	6 1/2
8.30	1/8, 1/4, 3/8, 1/2, 3/4	5 3/4			

Repair Parts for Armstrong Solid Stocks

Stock No.	Stock	Stock with Adj. Guide	Handles per Pair	Name Plates	Bushing Screw	Lock Screw	Leader Screw
0	\$3.00	\$5.00	\$0.75	\$0.40	\$0.20	\$0.20	....
1	3.50	5.50	1.25	.60	.30	.30	....
1 1/2	4.00	6.75	1.50	.80	.50	.50	....
2	8.50	....	2.00	1.00	.50*	.50	\$2.00

* No. 2 is set screw for the leader screw.

Threader Displays

Upon request, a handsome display board will be furnished with each first order for at least 6 No. 70 Handy Threaders.

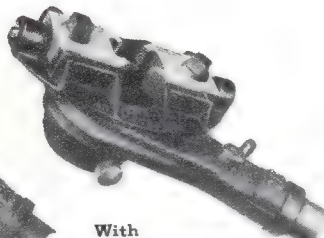
ARMSTRONG-BRIDGEPORT

MANUFACTURING COMPANY CONNECTICUT, U.S.A. EST. 1869

ARMSTRONG RATCHET DIESTOCKS



With Adjustable Guide



With
Ring Bushings

Armstrong Adjustable Ratchet Diestocks

Ideal for use in ditches and corners. Easy to handle in close quarters and hard-to-get-at-positions.

Slip the ARMSTRONG Ratchet onto the pipe and begin to thread. The full sized leading threads in the double taper throat of the ARMSTRONG "Kalarized" Adjustable Dies pull the Stock onto the pipe without any struggle to get started.

With Ring Bushings

The popular ARMSTRONG Ratchet Diestock redesigned for Ring Bushings. A more economical tool with greater appeal.

Each set consists of an ARMSTRONG Adjustable Ratchet Diestock with ARMSTRONG "Kalarized" Adjustable Dies Ring Bushings, Screws, Handle and Wrench.

Set No.	List Price	For Threading Pipe Sizes—Inches	Weight Lbs.
2BR	\$17.50	$\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$, 1	13
2BR	15.50	$\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$, 1	12
2BR	14.00	$\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$, 1	11
2BR	12.50	$\frac{1}{2}$, $\frac{3}{4}$, 1	10
3BR	30.00	$\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{4}$, $1\frac{1}{2}$, 2	37
3BR	26.50	$\frac{3}{4}$, 1, $1\frac{1}{4}$, $1\frac{1}{2}$, 2	33
3BR	23.00	1, $1\frac{1}{4}$, $1\frac{1}{2}$, 2	29½
3BR	19.50	$1\frac{1}{4}$, $1\frac{1}{2}$, 2	25½

With Adjustable Guide

Each set consists of an ARMSTRONG Adjustable Ratchet Diestock with ARMSTRONG "Kalarized" Adjustable Dies Adjustable Guide, Screws, Handle and Wrench.

Set No.	List Price	For Threading Pipe Sizes—Inches	Weight Lbs.
2R	\$19.00	$\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$, 1	12½
2R	17.00	$\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$, 1	11½
2R	15.50	$\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$, 1	11
2R	14.00	$\frac{1}{2}$, $\frac{3}{4}$, 1	10½
3R	31.60	$\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{4}$, $1\frac{1}{2}$, 2	32
3R	28.30	$\frac{3}{4}$, 1, $1\frac{1}{4}$, $1\frac{1}{2}$, 2	29¼
3R	25.00	1, $1\frac{1}{4}$, $1\frac{1}{2}$, 2	27
3R	22.30	$1\frac{1}{4}$, $1\frac{1}{2}$, 2	24½

Adjustable Ratchet Diestock less Dies

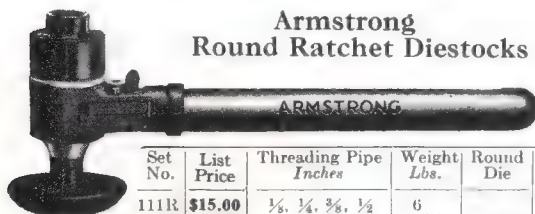
No. 2BR \$8.00. No. 2R \$9.50. No. 3BR \$12.50. No. 3R \$16.50. Uses Nos. 2 or 3 Adjustable Dies, respectively, listed on page 4.

Right-hand NPT or BSP Dies supplied at regular list.

These assortments of Right-hand NPT Dies will be shipped unless otherwise specified: No. 2BR—½ to 1" RH No. 2R—½ to 1" RH

No. 3BR—1 to 2" RH No. 3R—1 to 2" RH

Left-hand Dies take twice the die list.



Armstrong
Round Ratchet Diestocks

Set No.	List Price	Threading Pipe Inches	Weight Lbs.	Round Die	Front Guide
111R	\$15.00	$\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$	6	\$1.50	\$0.75
111R	12.50	$\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$	5½		
111R	10.50	$\frac{3}{8}$, $\frac{1}{2}$	4¾		

No. 111R Ratchet Diestock less Dies and Guides \$8.00.

Right-hand NPT Dies shipped unless otherwise specified.

Left-hand Dies take twice the die list.



With
Ring Bushings

Pat. No.
2,060,609



With Adjustable Guide

Armstrong Solid Ratchet Diestocks

Ideal for use in ditches and corners. Easy to handle in close quarters and hard-to-get-at-positions.

A twist of the finger securely locks the ARMSTRONG "Kalarized" Solid Die in place. A twist of the finger unlocks the Die for replacement.

With Ring Bushings

The popular ARMSTRONG Solid Ratchet redesigned for Ring Bushings. A more economical tool with greater appeal.

Each set consists of an ARMSTRONG Solid Ratchet Diestock with an assortment of ARMSTRONG "Kalarized" Solid Dies for each cutting size, together with Ring Bushings and Handle.

Set No.	List Price	For Threading Pipe Sizes—Inches	Weight Lbs.
51BR	\$16.60	$\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$, 1	13
51BR	15.00	$\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$, 1	11¾
51BR	13.50	$\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$, 1	10½
51BR	12.00	$\frac{1}{2}$, $\frac{3}{4}$, 1	9½
52BR	23.50	$\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{4}$, $1\frac{1}{2}$, 2	34½
52BR	21.00	$\frac{3}{4}$, 1, $1\frac{1}{4}$, $1\frac{1}{2}$, 2	30¼
52BR	18.50	1, $1\frac{1}{4}$, $1\frac{1}{2}$, 2	26½
52BR	17.00	$1\frac{1}{4}$, $1\frac{1}{2}$, 2	22¾

With Adjustable Guide

Each set consists of an ARMSTRONG Solid Ratchet Diestock with an assortment of ARMSTRONG "Kalarized" Solid Dies for each cutting size, together with Adjustable Guide and Handle.

Set No.	List Price	For Threading Pipe Sizes—Inches	Weight Lbs.
51R	\$18.20	$\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$, 1	12
51R	16.60	$\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$, 1	11¼
51R	15.00	$\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$, 1	10¼
51R	13.40	$\frac{1}{2}$, $\frac{3}{4}$, 1	9½
52R	27.00	$\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{4}$, $1\frac{1}{2}$, 2	28
52R	25.00	$\frac{3}{4}$, 1, $1\frac{1}{4}$, $1\frac{1}{2}$, 2	25¾
52R	22.50	1, $1\frac{1}{4}$, $1\frac{1}{2}$, 2	23¾
52R	20.00	$1\frac{1}{4}$, $1\frac{1}{2}$, 2	21

No. 51BR Solid Ratchet Diestock less Dies \$7.50.

No. 51R Solid Ratchet Diestock less Dies \$9.00.

No. 52BR Solid Ratchet Diestock less Dies \$12.00.

No. 52R Solid Ratchet Diestock less Dies \$16.00.

Uses Nos. 1 or 2 Solid Dies, respectively, listed on page 7.

Right-hand NPT or BSP Dies supplied at regular list.

Right-hand NPT Dies shipped unless otherwise specified.

These assortments will be shipped unless otherwise specified:

No. 51BR—½ to 1" KH

No. 51R—½ to 1" RH

No. 52BR—1 to 2" RH

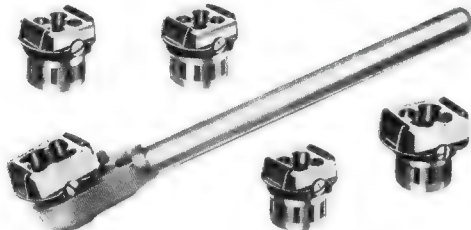
No. 52R—1 to 2" RH

Left-hand Dies take twice the die list.

ARMSTRONG-BRIDGEPORT

MANUFACTURING COMPANY CONNECTICUT, U.S.A. EST. 1869

ARMSTRONG DROPHEAD RATCHET DIESTOCKS



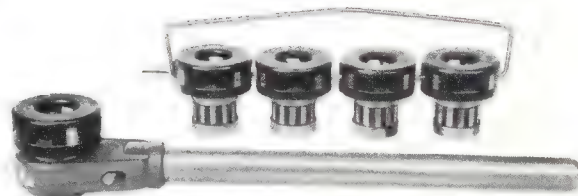
With Solid Dies

Made in two sizes: No. 100R threads pipe, $\frac{1}{8}$ " to $\frac{3}{4}$ "; No. 101R threads pipe $\frac{1}{8}$ " to $1\frac{1}{4}$ ", Right and Left Hand, each set packed in a substantial individual container.

Any assortment of Dieheads other than the combinations listed below, will be supplied at List for Dieheads plus Ratchet Collar List.

Sets, Dies, Heads and Collars Sizes—Inches	No. 100R		No. 101R	
	List Price	Wght. Lbs.	List Price	Wght. Lbs.
Complete $\frac{1}{8}$ to $\frac{3}{4}$	\$22.00	10		
$\frac{3}{4}$ to $\frac{1}{2}$	18.50	8 $\frac{3}{4}$		
$\frac{1}{2}$ to $\frac{3}{8}$	15.00	7 $\frac{1}{2}$		
$\frac{3}{8}$ to $\frac{1}{4}$			\$23.20	14
$\frac{1}{4}$ to $\frac{3}{8}$			19.60	12
$\frac{3}{8}$ to 1			15.80	10
Ratchet Collar and Handle	4.50	2 $\frac{3}{4}$	4.80	3
DIEHEADS AND DIES				
$\frac{1}{8}$, $\frac{1}{4}$ Each	3.50	1 $\frac{1}{2}$	3.60	2
$\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$ Each	3.50	1 $\frac{3}{4}$	3.60	2 $\frac{1}{4}$
1 , $1\frac{1}{4}$ Each			3.80	2 $\frac{1}{2}$
Diehead Only	2.10	1	2.20	1 $\frac{1}{2}$
Dies Only $\frac{1}{8}$ to $\frac{3}{4}$ Each	1.40	$\frac{3}{4}$	1.40	$\frac{3}{4}$
Dies Only 1 and $1\frac{1}{4}$ Each			1.60	1

Right-hand Brass Tubing Dies $\frac{3}{4}$ " to 2 ", No. 100R \$1.75, No. 101R \$2.00.
Uses Solid Dies listed on page 7 or Conduit Dies listed on page 8.
Special Dieheads and Dies supplied for threading bolts and rods for No. 100R Ratchet Collar from $\frac{1}{4}$ to $\frac{3}{4}$ " and for No. 101R Ratchet Collar from $\frac{1}{4}$ to $1\frac{1}{4}$ ", prices on application.
Right-hand NPT or BSP Dies supplied at regular list.
Right-hand NPT Dies shipped unless otherwise specified.
Left-hand Dies take twice the die list.



With Segmental Dies

These are small and compact Ratchet tools. They will cut threads in any nook and corner. A separate head is supplied for each cutting size. No changing of bushings. A touch swings the pawl to cut either right or left hand threads.

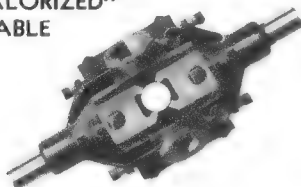
Each set consists of an ARMSTRONG No. 90R Drophead Ratchet Diestock with an assortment of Dieheads complete for each cutting size together with Handle and "Safety Pin" for carrying Dieheads. Packed in a substantial container.

Sets, Dies, Heads and Collars Sizes—Inches	No. 90R		No. 91R		Wght. Lbs.
	Price		Price		
Complete $\frac{1}{8}$ to $\frac{3}{4}$	\$12.96				10 $\frac{1}{4}$
$\frac{3}{4}$ to $\frac{1}{2}$	10.92				9
$\frac{1}{2}$ to $\frac{3}{8}$	8.87				7 $\frac{3}{4}$
$\frac{3}{8}$ to $\frac{1}{4}$	6.82				6 $\frac{1}{2}$
$\frac{1}{4}$ to $\frac{3}{8}$	4.77				5 $\frac{1}{4}$
Any one size					18 $\frac{3}{4}$
$\frac{1}{8}$ to $1\frac{1}{4}$			\$20.47		16
$\frac{1}{8}$ to 1			17.85		16 $\frac{3}{4}$
$\frac{1}{4}$ to $1\frac{1}{4}$			17.85		14 $\frac{3}{4}$
$\frac{1}{4}$ to 1			15.22		15
$\frac{3}{8}$ to $1\frac{1}{4}$			15.22		12 $\frac{3}{4}$
$\frac{3}{8}$ to 1			12.60		13 $\frac{1}{4}$
$\frac{1}{2}$ to $1\frac{1}{4}$			12.60		11
$\frac{1}{2}$ to 1			9.97		
Ratchet Collar and Handle	2.83		3.02		
DIEHEADS AND DIES					
	Complete	Dies Only	Complete	Dies Only	
$\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$	2.04	1.36	2.62	1.36	
$\frac{1}{2}$, $\frac{3}{4}$	2.39	1.36	2.62	1.36	
1 , $1\frac{1}{4}$			2.62	1.71	
For Bolt $\frac{3}{8}$ to $\frac{3}{4}$	2.36	1.68	2.94	1.68	
$\frac{3}{8}$ to 1	2.52	1.83	3.09	1.83	
For Conduit $\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$	2.39	1.36	2.62	1.36	
1 , $1\frac{1}{4}$			2.62	1.71	
For Inverted Dies $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$	3.15	2.10			
$\frac{1}{2}$, $\frac{3}{4}$	3.67	2.10			
For Brass Tubing $\frac{3}{4}$ " to 2"	2.39	1.71	2.62	1.71	

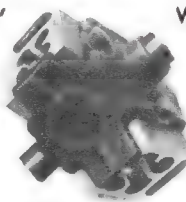
Dieheads for "BRASS PIPE ONLY"—Regular.
Right-hand NPT, BSP, National Coarse (NC), or Whitworth thread Dies supplied at regular prices.
Right-hand NPT Dies shipped unless otherwise specified.
Sizes, dimensions and threads not listed are special.
Left-hand Dies take twice the die price.

ARMSTRONG 3-WAY DIESTOCKS

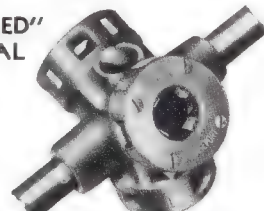
With "KALORIZED" ADJUSTABLE DIES



With "KALORIZED" SOLID DIES



With "KALORIZED" SEGMENTAL DIES



These Diestocks are each three stocks in one. Three sizes of threading dies in each stock, at all times. No changing of dies on the job. Saves time and energy. Combinations of any three dies can be kept in the stock, ready for use. Fitted with "Threads in the Double Taper Throat" Dies which start on over the meanest burr and pull themselves on the pipe without undue pushing. Each set is packed in a substantial individual container.

Set No.	List Price	Threading Pipe Sizes—Inches	Wght. Lbs.
60A	\$16.00	$\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$	15 $\frac{1}{2}$
60B	16.00	$\frac{1}{2}$, $\frac{3}{4}$, 1	15 $\frac{1}{2}$

No. 60 3-Way Diestock with Screws, Wrench and Handles \$10.00.
Uses No 2 Adjustable Dies listed and described on page 4.

Right-hand NPT, BSP, National Coarse (NC), Whitworth thread or "BRASS PIPE ONLY" Dies supplied at regular list. Right-hand NPT Dies shipped unless otherwise specified. Left-hand Dies take twice the die list.

Set No.	List Price	Threading Pipe Sizes—Inches	Wght. Lbs.
61A	\$8.00	$\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$	11 $\frac{1}{2}$
61B	9.00	$\frac{1}{2}$, $\frac{3}{4}$, 1	11 $\frac{1}{4}$

No. 61 3-Way Diestock with Screws, Wrench and Handles \$6.00.
Uses No. 1 Solid Dies listed and described on page 7.

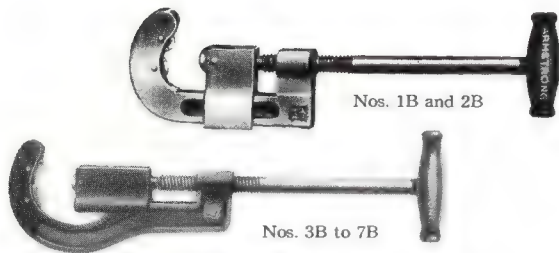
Set No.	Price	Threading Pipe Sizes—Inches	Wght. Lbs.
170	\$7.50	$\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$	15 $\frac{1}{2}$
171	8.00	$\frac{1}{2}$, $\frac{3}{4}$, 1	15 $\frac{1}{2}$

Diestock less Dies; No. 170 \$3.60; No. 171 \$4.00.

ARMSTRONG-BRIDGEPORT

MANUFACTURING COMPANY CONNECTICUT, U.S.A. EST. 1869

ARMSTRONG PIPE CUTTERS



Three Wheel Pipe Cutters Barnes Type

The Three Wheel Cutter is useful in restricted places as it cuts without revolving entirely around the pipe. The three wheels "track". The slide is accurately centered for every size within the range of the cutter.

The knife blade wheels are made of alloy steel.

The block travels straight and smoothly along the slide. Has no unnecessary play. Will not spread.

No.	List Price	Cuts Pipe Inches	Wght. Lbs.	Wheels Each	Pins Doz.	Slides Each	Handles Each
1B	\$4.50	1/8 to 1	3	\$0.50	\$1.00	\$0.75	\$1.00
2B	6.00	1 1/2 to 2	5	.60	1.00	1.00	1.25
3B	10.00	1 1/2 to 3	9	.80	1.00	2.00	2.25
4B	20.00	2 1/2 to 4	14	1.00	2.00	4.50	4.50
5B	30.00	4 to 6	23	1.10	2.00	7.00	7.00
6B	40.00	6 to 8	28	1.10	2.00	8.50	9.25
6 1/2 B	45.00	8 to 10	34	1.10	2.00	9.50	10.25
7B	50.00	9 to 12	51	1.10	2.00	11.25	11.50

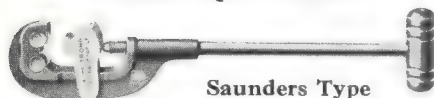
Nuts for Nos. 1B and 2B, \$.25 each.

Knife Blade Wheels shipped unless otherwise specified.

Knurled Wheels at regular list.

Wheels and Pins for Nos. 5B to 7B are the same.

Roller Pipe Cutters



The Roller Pipe Cutter is used only where the cutter can be revolved entirely around the pipe. The rollers prevent burrs on the outside of the pipe. The knife blade wheels are made of alloy steel.

The swing block is accurately centered and maintains perfect alignment. Holds the wheel true to the cut.

No.	List Price	Cuts Pipe Inches	Wght. Lbs.	Wheels Each	Rolls Each	Pins Each	Swing and Wheel
1S	\$3.00	1/8 to 1	3	\$0.50	\$0.24	\$0.10	\$1.25
2S	4.50	1 to 2	6	.60	.32	.10	1.75
3S	7.50	2 to 3	11	1.10	.50	.15	2.75
4S	15.00	2 1/2 to 4	15	1.10	.50	.15	3.50
5S	22.50	4 to 6	23	1.10	.50	.15	4.00

Knife Blade Wheels shipped unless otherwise specified.

Knurled Wheels at regular list.

Wheels, Rolls, and Pins for Nos. 3S to 5S are the same.

Wheels, Rolls and Pins for Heavy Duty Rigid Type Pipe Cutters

For Pipe Cutter Number	Wheels Each	Rolls Each	Pins Each
1 and 2	\$.40	\$.21	\$.14
3 and 4	.60	.54	.20

*Knife Blade Wheels furnished for all makes listed, unless otherwise specified. Knurled Wheels at the same price.

Repair Parts for Discontinued

Armstrong (Model B) Pipe Cutters

Model B Pipe Cutters have been discontinued, but repair parts will be supplied, as listed.

No.	Wheels Each	Rolls Each	Pins Each
1	\$0.50	\$0.25	\$0.10
2	.60	.30	.10
3	1.00	.50	.15

Knife Blade Wheels shipped unless otherwise specified.

Knurled Wheels at regular list.



Drop Forged Pipe Cutters

The Drop Forged Pipe Cutter is two tools in one. It can be used as a three wheel or one wheel cutter. Replaceable nut in frame assures long wear. Frame and block are steel forgings. Reinforcing ribs. The knife blade wheels are made of alloy steel.

No.	List Price	Cuts Pipe Inches	Wght. Lbs.	Wheels Each	Rolls Each	Pins Doz.	Nuts Each
1T	\$5.00	1/8 to 1 1/4	5 1/4	\$0.60	\$0.30	\$1.30	\$0.35
2T	6.00	1 1/8 to 2	6	.60	.30	1.30	.35
3T	10.00	1 to 3	8 3/4	.90	.40	1.30	.40
4T	20.00	2 1/2 to 4	13 3/4	1.20	.40	2.00	.60

Wheels, Pins, Rolls and Nuts for Nos. 1T and 2T are the same. Specify Roll Block Pins or Frame Pins for No. 3T Cutter. They are different lengths.

Knife Blade Wheels shipped unless otherwise specified.

Knurled Wheels at regular list.

Armstrong Tube Cutters With Rollers



The ARMSTRONG Tube Cutter is the two roller type, with knife blade wheel and bevel ground reamer. Perfect square end cuts result from the use of the rollers. Tubes are not twisted, dented, marred nor torn when cut between the wheel and rollers. All friction is eliminated.

The ARMSTRONG Tube Cutter Wheels cut with surprising speed. The square end cut is always assured. The cutting wheel holds its edge long after hundreds of cuts have been made.

The thin edge of the Cutter Wheel is protected by a positive stop, preventing it from pressing against the rollers.

No.	List Price	Cuts Tube Inches O. D.	Wght. Lbs.	Rolls Doz.	Roll Pins Doz.	Reamer and Screw	Handle Screw	Wheel Pins Doz.
01	1.75	1/8 to 1 1/4	1/4	\$1.20	\$1.00	\$0.35	\$0.40	\$1.00
02	2.50	1/8 to 1 1/2	1	1.40	1.20	.40	.50	1.00
03	3.15	1/8 to 2 1/4	1 1/4	1.80	1.50	.60	.80	1.00

Wheels: The same Wheel fits all 3 sizes.

\$.40 each.

Armstrong CO2 Tube Cutters For Conduit



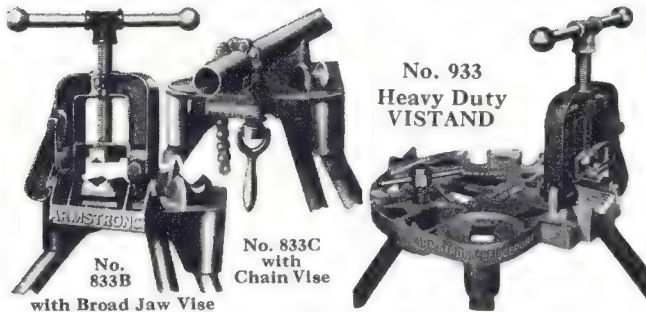
The No. CO2 Tube Cutter is designed for use on Thin Walled Electrical Conduit. Has all the features of ARMSTRONG Copper Tube Cutters, including the specially heat-treated Cutter Wheel and Bevelled Reamer. Fine thread feed screw increases ease of operation.

No.	Price	Cuts Conduit Inches	Rolls Doz.	Roll Pins Doz.	Reamer and Screw	Handle Screw	Swing Block and Pin
CO2	\$2.80	3/8 to 1 1/4	\$1.40	\$1.20	\$0.40	\$0.80	\$0.60

ARMSTRONG-BRIDGEPORT

MANUFACTURING COMPANY CONNECTICUT, U.S.A. EST. 1869

ARMSTRONG PORTABLE VISE STANDS VISE POSTS



Armstrong Integral VISTAND

Reg. U.S. Pat. Off.

The No. 833B VISTAND is three units in one—Vise, 3-Legged Stand and $\frac{3}{4}$ " Pipe Bender. Truly portable—easily carried in one hand. Plenty of spaces for tools and oil can. Folding legs with chain lock. Well balanced, well designed. No unnecessary weight. No loose parts.

The No. 933 VISTAND has all the features of the No. 833B plus 2 extra Benders, $\frac{1}{2}$ " and $\frac{3}{4}$ ", for Reverse Bends, more slots for tools, a Ceiling Brace, and a cast-in Dope Pot.

The 933 Integral Vise with this stand has the double pitch feed screw and the new "Upset" lower jaw.

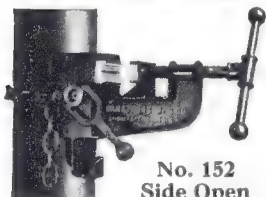
No.	Price	Holds Pipe Inches	Weight Lbs.	Upper Jaw	Lower Jaw	Slide
833B	\$16.00	$\frac{1}{8}$ to 2 $\frac{1}{2}$	42	\$6.00	\$1.00	\$8.00
833C	15.50	$\frac{1}{8}$ to 2	36	...	1.60	...
933	16.00	$\frac{1}{8}$ to 2 $\frac{1}{2}$	46	.60	1.00	.80

For Vise Part Repairs: No. 833B, see No. 133B Vise; No. 833C, see No. 1 Chain Vise. No. 933, see No. 233 Vise.

A set of 3 No. 833 Skidless Shoes, included with each VISTAND. Extra sets (3) Price \$4.00

Armstrong POST Vises

With the Frictionless Disk



No. 152
Side Open

10" diameter, square posts from 2 $\frac{1}{2}$ " to 10" diameter. Their Broad Jaws grip the pipe firmly and evenly without marring or digging its surface.



No. 163
Hinged

ARMSTRONG POST Vises with Pipe Benders are for on-the-job work. Wrap the sturdy chain around the lally column or post and hook the most convenient link into the slot. Turn the handle lock and POST Vise is set tight and straight—almost an integral part of the column. I-Beam structure throughout, bases are shaped to fit round posts from 4" to 10" diameter, square posts from 2 $\frac{1}{2}$ " to 10" diameter.

Equipped with the ARMSTRONG Frictionless Disk and Frictionless Cup that prevent friction and make for easy operation and long wear. No. 152 equipped with Side Open Vise, Broad Jaws and $\frac{3}{4}$ " Pipe Bender. No. 163 equipped with Hinged Pipe Vise, Broad Jaws and $\frac{3}{4}$ " Pipe Bender.

No.	List Price	Holds Pipe Inches	Weight Lbs.	Upper Jaw	Lower Jaw	Slide
152	\$8.65	$\frac{1}{8}$ to 2	16 $\frac{1}{2}$	\$0.60	\$1.00	\$0.80
163	9.00	$\frac{1}{8}$ to 2 $\frac{1}{2}$	20	.60	1.00	.80



Armstrong Portable Vise Stands

Made of heavy gauge pressed steel. Thumb screws lock the legs in place so that they cannot shift or drop out while stand is being moved. Legs are adjustable to variation in the floor's surface.

The solid bottom of the ARMSTRONG Stand affords ample useful space to hold tools and oil can.

Pipe up to and including $\frac{3}{4}$ " can be handled in the Bender.

No.	List Price	Description	Weight Lbs.
84	\$21.00	Portable Vise Stand and Bender only	43
* 84B		With No. 233 Armstrong Hinged Vise	54 $\frac{3}{4}$
* 84C		With No. 1 Armstrong Chain Vise	47 $\frac{1}{4}$

No. 84 ARMSTRONG Portable Vise Stand has universal slots for any regular pipe vise (hinged or chain) for pipe up to 3 $\frac{1}{2}$ ".

* List prices on Vises shown on ARMSTRONG Improved Vise Page.

No. 85 Armstrong Pipe Rest

Will balance pipe up to 3 inches. Adjustable to uneven floors.

Supplied less legs Price \$1.35

Make legs from $\frac{1}{2}$ " pipe.

Front legs—44" Rear leg—42 $\frac{1}{2}$ "



Armstrong Portable Vise Posts

Easy to set and to keep in place. Once properly fitted between beam and floor, the post cannot shift, turn or become off balance or disconnected due to the Feather Touch Lock and Tri-foot self-balancing base. Pipe up to and including $\frac{3}{4}$ " can be handled in the Bender.

No.	List Price	Description	Wght. Lbs.
81	\$18.00	Portable Vise Post	31 $\frac{1}{2}$
* 81B		With No. 232 Armstrong Hinged Vise	38
* 81C	18.00	With Integral Chain Vise	33
82	25.30	Portable Vise Post	55 $\frac{1}{2}$
* 82B		With No. 234 Armstrong Hinged Vise	71 $\frac{1}{4}$
* 82C		With No. 2 Armstrong Chain Vise	65 $\frac{3}{4}$

The Post is shipped complete with universal plate or Hinged or Integral Chain Vise; pipe bender and tool tray.

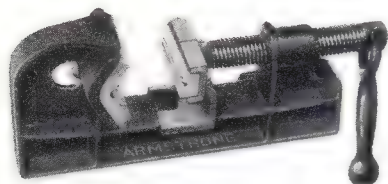
* List prices on Vises shown on ARMSTRONG Improved Vise Page.

Repair Parts for Discontinued Lines Armstrong Hinged Pipe Vises

These lines have been replaced by the Improved Hinged Pipe Vise. Repair parts, however, will be supplied as listed.

Vise No	Extra Jaws Three	Hook	Top	Base	Handle and Screw	Slide
Jr, 21,131	\$1.20	\$0.25	\$0.60	\$0.95	\$0.70	\$0.40
X, 22,132	1.80	.30	1.00	1.60	1.20	.60
O, 23,133	1.80	.35	1.20	1.90	1.40	.80
24,134	2.55	.50	1.80	2.80	2.20	.90
25	3.60	.75	2.65	4.20	3.00	1.00
1, 33	1.80	.45	1.50	2.30	1.40	.60
2, 35	3.60	.90	3.10	5.00	3.00	1.00
3, 36	3.60	1.60	5.75	9.00	6.60	1.50
4, 141	1.20	.25	.60	1.85	.70	.40
42,142	1.80	.30	1.00	2.65	1.20	.60
43,143	1.80	.35	1.20	3.40	1.40	.80

ARMSTRONG IMPROVED PIPE VISES



Armstrong Side Open Vise

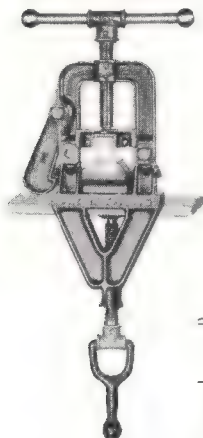
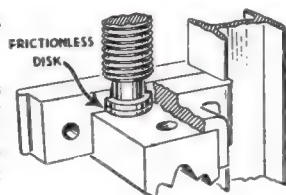
A low cost Vise of exceptional efficiency. The double speed adjustment Screw works twice as fast, yet holds pipe securely.

The Frictionless disk between the Upper Jaw and Screw saves them from the usual wear and tear.

No. 222 ARMSTRONG Side Open Bench Pipe Vise
Capacity— $\frac{1}{4}$ to 2"
Parts: Upper Jaw, \$.60 Handle and Screw, \$1.20
Lower Jaw, \$1.00 Slide, \$.80 Frame, \$1.60 Price, \$3.00

Armstrong Frictionless Disk

The Frictionless Disk prevents the friction between the screw and upper jaw, and the attendant trouble and expense. The jaws hold the pipe tighter—yet release with noticeable ease.



Armstrong Kit (Clamp Type) Vises With the Frictionless Disk

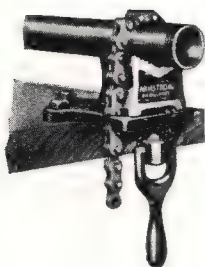
Clamps onto plank, bench or post. Mounting tools unnecessary. Husky and serviceable, yet light enough to be included in any kit. Securely grips and holds all pipe within its range. Has all the features of the ARMSTRONG Broad Jaw Vises, including the Frictionless Disk and four point bearing slide, I-Beam structure and light weight. Will not wear out quickly.

No.	List Price	Holds Pipe Inches	Wgt. Lbs.	Upper Jaw	Lower Jaw
141B	\$3.50	$\frac{1}{8}$ to $1\frac{1}{4}$	4 $\frac{3}{4}$	\$0.40	\$0.60
142B	5.00	$\frac{1}{8}$ to 2	11 $\frac{1}{4}$	.60	1.00
143B	6.50	$\frac{1}{8}$ to 2 $\frac{1}{2}$	16 $\frac{1}{4}$	.60	1.00

No.	Top	Hook	Base	Handle and Screw	Slide	Lower Broad Jaw (and Holder)
141B	\$0.60	\$0.25	\$1.85	\$0.70	\$0.40	\$1.00
142B	1.00	.30	2.65	1.20	.60	1.50
143B	1.20	.35	3.40	1.40	.80	1.50

Armstrong Chain Vises

The flat extension base at the rear of the Vise permits easy access to the bolts and makes mounting easy. Parts interchangeable. Nos. 1, 2 and 3 are packed one in a box.

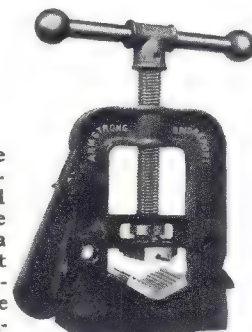


No.	List Price	Holds Pipe Inches	Wgt. Lbs.	Jaws per Pair
1	\$7.00	$\frac{1}{8}$ to 2	4 $\frac{1}{4}$	\$3.00
2	15.00	$\frac{1}{4}$ to 4	11 $\frac{1}{4}$	7.00
3	27.00	$\frac{1}{2}$ to 6	20 $\frac{1}{4}$	12.00
4	36.00	$\frac{1}{2}$ to 8	30 $\frac{3}{4}$	18.00

No.	Chain with Screw	Screw	Handle and Nut	Nut
1	\$2.50	\$0.80	\$2.20	\$1.40
2	4.80	1.40	4.20	2.70
3	9.00	2.50	7.00	4.00
4	12.00	2.50	7.00	4.00

Armstrong Broad Jaw Vises With the Frictionless Disk

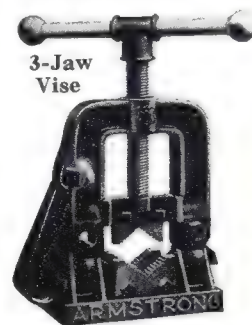
A modern development in pipe vises. Full length Broad Jaws consisting of broad single upper and broad single lower jaws grip the pipe along its entire length assuring a tight, firm and sure grip without marring the pipe. Misuse or excessive pressure between pipe and the screw cannot loosen, bend or separate the two bolts holding the Upper Jaw in place.



Broad Jaw Vise

No.	List Price	Holds Pipe Inches	Weight Lbs.	Upper Jaw	Lower Jaw	Slide
131B	\$2.50	$\frac{1}{8}$ to $1\frac{1}{4}$	3 $\frac{3}{8}$	\$0.40	\$0.60	\$0.40
232	4.25	$\frac{1}{8}$ to 2	8 $\frac{1}{2}$	.60	1.00	.60
233	5.00	$\frac{1}{8}$ to 2 $\frac{1}{2}$	12 $\frac{1}{4}$	.60	1.00	.80
234	7.50	$\frac{1}{8}$ to 3 $\frac{1}{2}$	15 $\frac{1}{4}$	.80	1.20	1.00

No.	Top	Hook	Base	Handle and Screw	Lower Broad Jaw and Holder
131B	\$0.60	\$0.25	\$0.75	\$0.70	\$1.00
232	1.00	.30	1.50	1.20	.....
233	1.20	.35	1.90	1.40	.....
234	1.80	.50	2.80	2.20	.....



Armstrong 3-Jaw Vises With the Frictionless Disk

ARMSTRONG Improved Pipe Vises are built for the heaviest duty. Yet they are comparatively light in weight. The I-Beam structure throughout, provides maximum strength, without burdensome weight. Competent engineering design and service tests for many years have evolved this, the sturdiest of Vises.

The ARMSTRONG Interlocking Slide has four full length bearings. It slides smoothly on the outside of the Vise Frame.

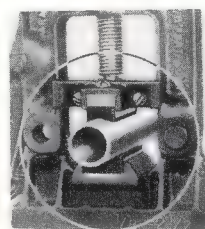
No.	List Price	Holds Pipe Inches	Weight Lbs.	Jaws Three
135	\$11.00	$\frac{1}{8}$ to 4 $\frac{1}{2}$	28 $\frac{1}{4}$	\$3.60
136	23.50	$\frac{1}{8}$ to 6	35 $\frac{1}{2}$	3.60

No.	Slide	Top	Hook	Base	Handle and Screw
135	\$1.00	\$2.65	\$0.75	\$4.20	\$3.00
136	1.50	5.75	1.60	9.00	6.60

Armstrong Polished Pipe Protectors

No. 133 ARMSTRONG Polished Pipe Protectors are the first truly "Scratchless" Vise Jaws, made of resilient rubber. They grip the pipe so it cannot slip, yet leave no marks or scratches on the polished surface.

Inserted over the regular Broad Jaws, they will fit ARMSTRONG'S No. 132B, 133B Hinged Vises, No. 152 and 163 Post Vises and No. 833B Vistands Price \$0.35 per pair.



ARMSTRONG-BRIDGEPORT

MANUFACTURING COMPANY CONNECTICUT, U.S.A. EST. 1869

ARMSTRONG BURRING REAMERS



These attractive Burring Reamers, either Ratchet or non Ratchet, save money, save effort. Remove burrs easily and speedily. Built for rough, hard usage.

ARMSTRONG Reamer Heads are made of the best materials obtainable. Cutting blades are skillfully hardened and tempered. They are sharp cutters, not scrapers.

Reamer Heads easily removed and resharpened. Worn Heads can be replaced. All parts are interchangeable.

No.	Reamer Complete	Reams Pipe Inches	Wght. Lbs.	Reamer Head Only	Collar and Handle	Bitbrace Adaptor Socket
209	\$5.30	1/4 to 2	4	\$3.00	\$2.50	
210R	7.50	3/8 to 3	8 1/2	4.00	4.80	\$1.00
246R	7.00	1/2 to 2	8	3.00	4.80	1.00

All parts of the Nos. 210R and 246R Ratchet Burring Reamers are interchangeable. Both Reamer Heads fit the same Ratchet Collar.

No.	Reamer Complete	Reams Pipe Inches	No.	Swivel Reamer Complete	Reams Pipe Inches
KR1	\$5.10	1/4 to 1 1/4	K01	\$3.20	1/4 to 1 1/4
KR2	5.60	1/4 to 2	K02	3.70	1/4 to 2

All parts of the Nos. KR1 and KR2 Ratchet Burring Reamers are interchangeable. Both Reamers fit the same Ratchet Body.

All parts of the Nos. K01 and K02 Swivel Burring Reamers are interchangeable. Both Reamers fit the same Swivel Body.

Armstrong Bit Brace Burring Reamers



Spiral Fluted

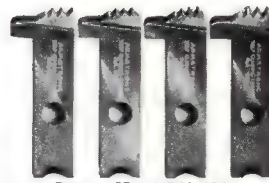
These Spiral Fluted Burring Reamers are designed especially for removing burrs from pipe and conduit. Keen edged spiral blades cut smoothly and rapidly

No.	List Price	Capacity of Pipe Inches	Diam.—Inches	
			at Point	at Large
242	\$1.25	1/8 to 1	3/16	1 1/4
242 1/2	1.50	1/4 to 1 1/4	1/4	1 13/16
244	3.00	1/2 to 2	1/2	2 13/16

Straight Fluted

These inexpensive Straight Fluted Burring Reamers are for reaming burrs from pipe and conduit. They have an easy smooth cutting action.

No.	Price	Capacity of Pipe Inches	Diam.—Inches	
			at Point	at Large
K1	\$0.70	1/4 to 1 1/4	1/4	1 13/16
K2	1.20	1/2 to 2	1/2	2 13/16



Armstrong Self Guiding Chasers

Save Annoyance
Save Time
Save Money

Patent No. 1,760,502

For use in any four or five post threader. Improves the narrow chaser stock. ARMSTRONG Self Guiding "Kalorized" Chaser "lips" balance the threader on the pipe and center it easily and perfectly. Will cut crooked threads when necessary.

For Nos. 1 & 1A Threaders, 1", 1 1/4", 1 1/2" . . . List Price \$2.50 per set
For No. 2 Threader, 2 1/2", 3", 3 1/2", 4" . . . List Price 8.00 per set
Left-hand Chasers are special.

Armstrong Receding Chasers



ARMSTRONG Receding Chasers are for use in any four post threader. These Chasers of the shear cut, receding type, with cutting edge hollow ground similar to a lathe tool. The lead teeth are ground to take an instant bite.

They start easily. They cut clean, smooth threads.

No. 1 and No. 1A Threaders, 1", 1 1/4", 1 1/2", 2" . . . List Price \$2.50 per set
Left-hand Chasers are special.

Ring Bushings for Receding Threaders

These Bushings are for use in the four-post type threading devices.

For Nos. 1 & 1A for 1", 1 1/4", 1 1/2", 2" . . . List Price \$0.50 Each

Armstrong Pipe Taps and Pipe Reamers

Nominal Size Pipe Inches	List Price Taps or Reamers	Threads to Inch	
		Amer. Std.	Brit. Std.
1/8	\$1.00	27	28
1/4	1.20	18	19
3/8	1.60	18	19
1/2	2.00	14	14
5/8	2.80	14	14
3/4	2.80	14	14
7/8	4.40	11 1/2	11
1	4.40	11 1/2	11
1 1/4	5.00	11 1/2	11
1 1/2	6.60	11 1/2	11
1 3/4	8.00	11 1/2	11
2	10.00	11 1/2	11

Right-hand NPT or BSP Taper and NPT or BSP Straight (Plug) Taps supplied at regular list.

Right-hand NPT Taper Taps shipped unless otherwise specified.

Left-hand Taps are special. 3/4" Fine Thread Taps are special.



Hand Taps Carbon Steel

Diam. Inch.	List Price		Standard Pitches				
	Each	Per Set	NC	NF	Whitworth	BS F	US Form NS
1/4	\$0.45	\$1.35	20	28	20	26	24, 27, 32
3/16	.50	1.50	18	24	18	22	20, 27, 32
1/8	.55	1.65	16	24	16	20	20, 27
1/16	.60	1.80	14	20	14	18	24, 27
1/32	.70	2.10	13	20	12	16	12, 24, 27
3/64	.80	2.40	12	18	12	16	27
1/64	.90	2.70	11	18	11	14	12, 27
1/128	1.05	3.15	11	16	11	14	11, 16
1/256	1.20	3.60	10	16	10	12	12, 27
1/512	1.60	4.80	9	14	9	11	12, *18, 27
1	2.00	6.00	8	14	8	10	12, 27
1 1/8	2.25	6.75	7	12	7	9	..
1 1/4	2.60	7.80	7	12	7	9	..
1 1/2	3.00	9.00	6	12	6	8	..
1 3/4	3.50	10.50	6	12	6	8	..
1 7/8	4.20	12.60	5	11	5	7	5 1/2
2	5.00	15.00	5	11	5	7	..
1 1/2	5.80	17.40	4 1/2	11	4 1/2	7	5
2	6.70	20.10	4 1/2	11	4 1/2	7	..

*Standard spark plug size.
All sizes supplied in taper, plug or bottoming style at regular list.
Right-hand NC Taps shipped unless otherwise specified.
Sizes and dimensions not listed are special.
Left-hand Taps are special.

ARMSTRONG-BRIDGEPORT

MANUFACTURING COMPANY CONNECTICUT, U.S.A. EST. 1869

Armstrong Flanging Tools



A convenient set of tools for flanging soft copper tube. Made of carefully selected steel. Cadmium plated. Each set is packed in a suitable carton.

No. 050 ARMSTRONG Flanging Tools, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $1\frac{1}{8}$ inches O. D.
Price, per set \$2.60
Price each: $\frac{3}{8}$ ", \$.45; $\frac{1}{2}$ ", \$.45; $\frac{5}{8}$ ", \$.55; $\frac{3}{4}$ ", \$.70; $1\frac{1}{8}$ ", \$.90.
The complete set will be shipped unless otherwise specified.

No. 060 Armstrong External Bending Springs For Soft Copper Tube



These Springs are for bending soft copper tube. They prevent the tube from kinking, when being bent. Made from flexible, durable, oil tempered spring wire. They return to their original shape after being used.

These Springs are extra long and are $\frac{1}{32}$ " oversize. Very easy and comfortable to handle.

Each set packed in a substantial carton.

For Bending Tube—Inches O.D.	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$1\frac{1}{8}$	Price
Length of Spring—Inches	13	13	17	19	Per set 2.40
Price each:	$\frac{3}{8}$ ", \$.32	$\frac{1}{2}$ ", \$.36	$\frac{5}{8}$ ", \$.40	$\frac{3}{4}$ ", \$.64	$1\frac{1}{8}$ ", \$1.00

The complete set will be shipped unless otherwise specified.

Armstrong Tube Brushes



No. 085
Tube
Brush

No. 085 ARMSTRONG Tube Brush for cleaning outside surface of Copper Tubes before soldering. Double ended, two brushes accommodate the four most popular tube sizes. Bristles of tempered steel wire; will not crush down.

O.D. sizes	$\frac{1}{2}$ "	$\frac{5}{8}$ "	$\frac{3}{4}$ "	$1\frac{1}{8}$ "
No. 085 Tube Brush	each	\$1.80	\$1.90	
No. 085 Refills	each	\$.42	\$.64	\$.48 \$.55

No. 080
Fitting
Brush



No. 080 ARMSTRONG Fitting Brush cleans inside of Copper Fitting before soldering. 6" long. Steel wire handles, with tempered steel wire bristles.

O. D. Sizes	$\frac{1}{2}$ "	$\frac{5}{8}$ "	$\frac{3}{4}$ "	$1\frac{1}{8}$ "
No. 080 Fitting Brush	each	\$.60	\$.60	\$.70 \$.70

ARMSTRONG DISPLAYS

Attract Interested Attention

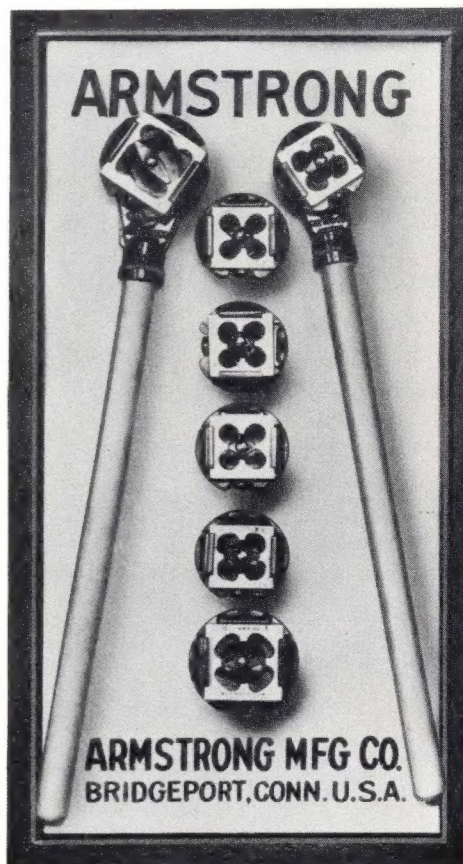
ARMSTRONG DISPLAYS

SELL ON SIGHT

ARMSTRONG DISPLAYS

Attract Interested Attention

THEY profitably merchandise ARMSTRONG Tools. The tools can be readily removed for examination and sale. The Boards shown on this page will be furnished Free of Charge, when supplied with orders for the Tools illustrated upon them.



ARMSTRONG DROPHEAD RATCHET DIESTOCK
DISPLAY. Size 15" x 28"

ARMSTRONG DROPHEAD RATCHET DIESTOCK DISPLAY:

No. 100R ARMSTRONG Drophead Ratchet Diestock $\frac{3}{8}$ to $\frac{3}{4}$ " R
No. 101R ARMSTRONG Drophead Ratchet Diestock $\frac{1}{2}$ to $1\frac{1}{4}$ " R
Other suitable Displays of ARMSTRONG Tools may be arranged.
ARMSTRONG Tools are clearly marked or tagged for quick identification.

ARMSTRONG Products are backed by the ARMSTRONG Guarantee.

ARMSTRONG DISPLAYS

SIGHT THE SALES AND SELL ON SIGHT



above ARMSTRONG TUBE CUTTER
DISPLAY. 15" x 18"

PIPE CUTTER WHEEL DISPLAY

Is furnished with:

- 12 No. 1 Barnes Wheels
- 12 No. 2 Barnes Wheels
- 6 No. 3 Barnes Wheels
- 12 No. 1 Saunders Wheels
- 12 No. 2 Saunders Wheels
- 6 No. 3 Saunders Wheels
- 6 No. 1 & 2 Trimo Wheels
- 6 No. 3 Trimo Wheels



ARMSTRONG HINGED PIPE VISE DISPLAY STAND

THE sturdy Display Stand can be set anywhere. It is bound to increase your Pipe Vise sales many times. Strongly built of iron pipe and fittings mounted on a heavy base.

ARMSTRONG HINGED PIPE VISE DISPLAY

ONE EACH:

- No. 131B Pipe Vise $\frac{1}{8}$ " to $1\frac{1}{4}$ "
- No. 232 Pipe Vise $\frac{1}{8}$ " to 2"
- No. 233 Pipe Vise $\frac{1}{8}$ " to $2\frac{1}{2}$ "

- No. 234 Pipe Vise $\frac{1}{8}$ " to $3\frac{1}{2}$ "
- No. 135 Pipe Vise $\frac{1}{8}$ " to $4\frac{1}{2}$ "

Other combinations of four or five Hinged Vises with the FRICTION-LESS DISK will be furnished as specified.

This Pipe Vise Display is furnished Free of Charge with a shipment of 12 or more ARMSTRONG Pipe Vises.

ARMSTRONG Displays attract interested attention. They profitably merchandise ARMSTRONG Tools. All the tools shown on this page can be readily removed from the Display for examination and sale.

ARMSTRONG TUBE CUTTER DISPLAY

Is furnished with: One No. 10 ARMSTRONG Tube Cutter; One No. 20 ARMSTRONG Tube Cutter and One No. 30 ARMSTRONG Tube Cutter.

This Display Board when supplied with an order for 12 or more ARMSTRONG Tube Cutters, or an assorted tool order amounting to at least \$75.00 net, will be furnished Free of Charge.

below ARMSTRONG CUTTER WHEEL
DISPLAY. Size 15" x 18"

ARMSTRONG Sales Helps!

ARMSTRONG has available folders, leaflets and loose leaf catalogue pages for your salesmen and customer mailing.

below ARMSTRONG HINGED
PIPE VISE DISPLAY

